## SEQUENCE LISTING

<110>	Helle Fu, (	_		Carl											
<120>	GBS 1	Coxin	Rece	eptoi	r										٠
<130>	CARB-	008/0	oius												
<140>	•														
<141>	•			•						•					
<150>	60-69	3 84	3					•							
	1998-														
<160>	12														
<170>	Pater	ntIn V	Ver.	2.0											
<210>	. 1														
	2602						•								
<212>	DNA														
<213>	Homo	sapi	ens												
<220>	•			•											
<221>	CDS														
<222>	(58)	. (154	12)												
<400>	. 1														
	leegge	gctc	cctt	ct ct	gcca	aggto	g gcg	gagta	acac	ctg	ctca	cgt a	aggc	gtc	57
ato a	igg tct	. cca	att	cga	gac	cta	acc	caa	aac	gat	aac	gag	σaσ	agc	105
	irg Sei														
1	_		5					10		•	-		15		
acq q	jac cgo	acq	cct	ctt	cta	cca	aac	acc.	cca	caa	acc	gaa	gcc	gct	153
	Asp Arg							_			_	-	_	_	
		20					25					30			
				_						•					
	gtg tgo	_		-	_				_			_			201
PIO V	al Cys 3!	=	ser	Ald	AIG	40	ASII	reu	AId	m	45		Pne	Pne	· .
	J.	,				40					4.0	•			•
ggt t	tcitt	att	gtg	tat	gca	tta	cgt	gtg	aat	ctg	agt	gtt	gcg	tta	249
Gly P	he Phe	lle	Val	Tyr	Ala	Leu	Arg	Val	Asn	Leu	Ser	Val	Ala	Leu	
	50				55					60					•
gtg g	gat ato	g gta	gat	tca	aat	aca	act	tta	gaa	gat	aat	aga	act	tcc	297

;	•.																		•	
•						•			•						٠					
		Val	Asp	Met	Val	Asp	Ser	Asn	Thr	Thr	Leu	Glu	Asp	Asn	Arg	Thr	Ser			
		65					70			•		75					80	•		
		aan	aca.	tgt	cca	gag	cat	tat	act	ccc	a t a	222	att	cat	a > t			245		
				Cys														345		
•				_		85					90	•				95				
	,																			
				aag Lys														393		
		••••	OL y	Lys	100	- 7 -	GIII	11p		105	Giu	1111	GIII	Gry	110	116	пец			
				ttt														441		
		GIY	Ser	Phe 115	Phe	Tyr	GIÀ	Tyr	11e	Ile	Thr	Gln	Ile	Pro 125	Gly	Gly	Tyr			
				~=3					120					123						
				agc						_								489		
		Val		Ser	Lys	Ile	Gly		Lys	Met	Leu	Leu		Phe	Gly	Ile	Leu		•	
			130					135					140							
		ggc	act	gct	gtc	ctc	acc	ctg	ttc	act	ccc	att	gct	gca	gat	tta	gga	537		
			Thr	Ala	Val	Leu	Thr	Leu	Phe	Thr	Pro	Ile	Ala	Ala	Asp	Leu	Gly			
		145			•		150					155					160			
-		gtt	gga	cca	ctc	att	qta	ctc	aga	qca	cta	gaa	gga	cta	gga	дад	gat.	585		
				Pro												-				
						165					170					175				
		att	aca	ttt	cca	acc	atα	cat	acc	ato	taa	tct	tct	taa	act	ccc	cct	633		
				Phe														033		
					180					185					190					
		att	~~~	202	200		a++	a++	200		<b>+</b> aa	+-+	~~~		~			601		
				aga Arg					_		_		-		_	_		681		
				195					200			_		205					•	
							1. 1													
				gta Val										_			_	729		
		1	210			001	204	215	204	001	027		220	0,0	-1-	-1-				
•																				
				act		_												777		
		225	пр	Thr	IÀT	vaı	230	ıyı	Pne	Pne	СТА	235	116	GIY	116	PILE	240	•		
				ttg					_	_	_						_	825		
•		Phe	Leu	Leu	Trp	Ile 245	Trp	Leu	Val	ser	Asp 250	Thr	Pro	Gin	Lys	His 255	гуs			
					•	273					200					زرے				
		aga	att	tcc	cat	tat	gaa	aag	gaa	tac	att	ctt	tca	tca	tta	aga	aat	873	•	
										•										
								•	. 2											

Arg Ile Se	er His Tyr 260	Glu Lys	Glu Tyr 265	Ile Leu	Ser Ser	Leu Arg	Asn	
cag ctt to Gln Leu So 2								921
ctg cca c Leu Pro L 290								969
ttt tat ac Phe Tyr Tl 305								1017
agg ttc as		Glu Asn			_			1065
ggc tct to						_		1113 ·
agg gca aa Arg Ala L					•		_	1161
ctt ata gg Leu Ile G 370				_				1209
att ggc to Ile Gly Co	gt gat tat ys Asp Tyr							1257
aca ctg go Thr Leu G		Cys Ser		_		_	_	1305
att gct co	ct tcg tat ro Ser Tyr 420							1353
gcc act at Ala Thr I						_		1401
cct gat a	ac act gitt	gga gaa	tgg caa	acc gtg	ttc tat	att gct	gct	1449

Pro Asp Asn Thr Val Gly Glu Trp Gln Thr Val Phe Tyr Ile Ala Ala 450 455 460

gct att aat gtt ttt ggt gcc att ttc ttt aca cta ttc gcc aaa ggt 1497 Ala Ile Asn Val Phe Gly Ala Ile Phe Phe Thr Leu Phe Ala Lys Gly 465 470 475 480

gaa gta caa aac tgg gct ctc aat gat cac cat gga cac aga cac 1542
Glu Val Gln Asn Trp Ala Leu Asn Asp His His Gly His Arg His
485
490
495

tgaaggaacc aataaataat cctgcctcta ttaatgtatt tttatttatc atgtaacctc 1602 aaagtgeett etgtattgtg taageattet atgtettttt ttaattgtae ttgtattaga 1662 tttttaaggc ctataatcat gaaatatcac tagttgccag aataataaaa tgaactgtgt 1722 ttaattatga ataatatgta agctaggact tctactttag gttcacatac ctgcctgcta 1782 gtcgggcaac atgaagtagg acagttctgt tgatttttta gggccatact aaagggaatg 1842 agctgaaaca gacctcctga tacctttgct taattaaact agatgataat tctcaggtac 1902 tgataaacac ctgttgttgt tcactttcct cataaaaatt gtcagctctc tctgacactt 1962 agacctcaaa ctttagcatc tctgtggagc tgccatccac tgtataattt cgcctggcaa 2022 ctggactgag gggagtgtgc ccaggcagct gccaagcact ccctccctgg cttcagggtc 2082 agagtgccca gcgtttatca gaggcagcat ccaagcccag agccagtgtc gactcttcgg 2142 ctggtgcctt tcctctgagg ggctatcaat gtgtagataa agccctgagt aggcaagagc 2202 agtgagatec actgetatgg tettgataca teetcaaact tteeetteee agcacagagg 2262 aatattggct ggcatgcaac ctgcaaaaga aaaatgcgaa gcggccgggc acggtggctc 2322 atgcctgtaa tcccagcact ttggggggct gaggtgggcg aatcatgaga tcaggagttc 2382 gagaccagcc tggccagcat ggtgaaaccc catctctact aaaaatacaa aaaattagct 2442 gggcgtggtg acgggcgcct gtaatcccag atactcagga ggctgaggta ggagaatcac 2502 ttgaacctgg gaggtggaag ttgcagtgaa ccaagatcac gccactgcac tccagcctgg 2562 2602

e	2	1	0	`	2

<211> 495

<212> PRT

<213> Homo sapiens

<400> 2

Met Arg Ser Pro Val Arg Asp Leu Ala Arg Asn Asp Gly Glu Glu Ser

1 5 10 15

Thr Asp Arg Thr Pro Leu Leu Pro Gly Ala Pro Arg Ala Glu Ala Ala
20 25 30

Pro Val Cys Cys Ser Ala Arg Tyr Asn Leu Ala Ile Leu Ala Phe Phe 35 40 45

Gly Phe Phe Ile Val Tyr Ala Leu Arg Val Asn Leu Ser Val Ala Leu
50 55 60

Val Asp Met Val Asp Ser Asn Thr Thr Leu Glu Asp Asn Arg Thr Ser
65 70 75 80

Lys Ala Cys Pro Glu His Ser Ala Pro Ile Lys Val His His Asn Gln 85 90 95

Thr Gly Lys Lys Tyr Gln Trp Asp Ala Glu Thr Gln Gly Trp Ile Leu 100 105 110

Gly Ser Phe Phe Tyr Gly Tyr Ile Ile Thr Gln Ile Pro Gly Gly Tyr 115 120 125

Val Ala Ser Lys Ile Gly Gly Lys Met Leu Leu Gly Phe Gly Ile Leu 130 135 140

Gly Thr Ala Val Leu Thr Leu Phe Thr Pro Ile Ala Ala Asp Leu Gly
145 150 155 160

Val Gly Pro Leu Ile Val Leu Arg Ala Leu Glu Gly Leu Gly Glu Gly
165 170 175

Val Thr Phe Pro Ala Met His Ala Met Trp Ser Ser Trp Ala Pro Pro 180 185 190

Leu Glu Arg Ser Lys Leu Leu Ser Ile Ser Tyr Ala Gly Ala Gln Leu 195 200 205

Gly Thr Val Ile Ser Leu Pro Leu Ser Gly Ile Ile Cys Tyr Tyr Met 210 215 220

Asn 225	Trp	Thr	Tyr	Val	Phe 230	Tyr	Phe	Phe	Gly	Thr 235	Ile	Gly	Ile	Phe	Trp 240
Phe	Leu	Leu	Trp	Ile 245	Trp	Leu	Val	Ser	Asp 250	Thr	Pro	Gln	Lys	His 255	Lys
Arg	Ile	Ser	His 260	Tyr	Glu	Lys	Glu	Tyr 265	Ile	Leu	Ser	Ser	Leu 270	Aṛg	Asn
Gln	Leu	Ser 275	Ser	Gln	Lys	Ser	Val 280	Pro	Trp	Val	Pro	Ile 285	Leu	Lys	Ser
Leu	Pro 290	Leu	Trp	Ala	Ile	Val 295	Val	Ala	His	Phe	Ser 300	Tyr	Asn	Trp	Thr
Phe 305	Tyr	Thr	Leu	Leu	Thr 310	Leu	Leu	Pro	Thr	Tyr 315	Met	Lys	Glu	Ile	Leu 320
Arg	Phe	Asn	Val	Gln 325	Glu	Asn	Gly	Phe	Leu 330	Ser	Ser	Leu	Pro	Tyr 335	Leu
Gly	Ser	Trp	Leu 340	Cys	Met	Ile	Leu	Ser 345	Gly	Gln	Ala	Ala	Asp 350	Asn	Leu
Arg	Ala	Lys 355	Trp	Asn	Phe	Ser	Thr 360	Leu	Cys	Val	Arg	Arg 365	Ile	Phe	Ser
Leu	Ile 370	Gly	Met	Ile	Gly	Pro 375	Ala	Val	Phe	Leu	Val 380	Ala	Ala	Gly	Phe
385					390		Ala			395					400
				405			Ser	. *	410					415	•
			420		٠		Ile	425					430		
		435		_			Gly 440					445			
	450					455	Trp				460				
Ala	Ile	Asn	Val	Phe	Gly	Ala	Ile	Phe	Phe	Thr	Leu	Phe	Ala	Lys	Gly

Glu	Val	Gln	Asn	Trp	Ala	Leu	Asn	Asp	His	His	Gly	His	Arg	His
				485					490					495

<210	)> 3															
<211	L> 28	344														
<212	2> Di	ΙA														
<213	7O <	is s	sp.													
<220	)>															
<221	L> CI	os														
<222	2> (8	34)	. (156	58)												
			·													
<400	)> 3															
ccc	gggg	ica d	qqqq	actto	eq q	aato	ccq	t tac	raget	ctc	ttti	cca	caa a	agcad	ggtttg	60
			,,,,,,			-	J	٠.	, ,			3	- 33		33,4443	
cgc	gtag	get d	cate	gaagg	gc at	c at	g aa	ag to		ca at	it to	टव व	ac ti	ta q	ec eeg	113
		-													la Pro	
							1	•			5		•		10	
agc	gac	ggc	gag	gag	ggc	tcg	gac	cgc	aca	ccg	ctc	ctg	cag	cgc	qcc	161
					Gly									_	-	
				15					20					25		
																•
ccg	cgg	gcg	gaa	ccc	gct	cca	gta	tgc	tgc	tct	gct	cgt	tac	aac	cta	209
Pro	Arg	Ala	Glu	Pro	Ala	Pro	Val	Cys	Cys	Ser	Ala	Arg	Tyr	Asn	Leu	
			30					35					40			
	•											÷				
gca	ttt	ttg	tcc	ttt	ttt	ggt	ttc	ttc	gtt	ctc	tat	tca	tta	cgg	gtg	257
Ala	Phe	Leu	Ser	Phe	Phe	Gly.	Phe	Phe	Val	Leu	Tyr	Ser	Leu	Arg	Val	
		45					50					55				
	•															
aat	ctg	agc	gtt	gca	cta	gtg	gac	atg	gtg	gat	tca	aac	aca	act	gcc	305
Asn	Leu	Ser	Val	Ala	Leu	Val	Asp	Met	Val	Asp	Ser	Asn	Thr	Thr	Ala	
	60					65					70					
														•		
aaa	gat	aat	aga	acg	tcc	tac	gag	tgt	gca	gag	cat	tct	gct	ccc	ata	353
Lys	Asp	Asn	Arg	Thr	Ser	Tyr	Glu	Cys	Ala	Glu	His	Ser	Ala	Pro	Ile	
75	•				80					85					90	
aaa	gtt	ctt	cac	aac	caa	acg	ggt	aaa	aag	tac	cgg	tgg	gat	gca	gaa	401
Lys	Val	Leu	His	Asn	Gln	Thr	Gly	Lys	Lys	Tyr	Arg	Trp	Asp	Ala	Glu	
				95	٠.				100					105		
					ctc						_					449
Thr	Gln	Gly		Ile	Leu	Gly	Ser		Phe	Tyr	Gly	Tyr		Ile	Thr	
			110					115					120			

					gga Gly									_	-		497
					atc Ile								_				545
•					ttc Phe							_			_		593
					gag Glu 175									_	_		641 ·
					ccc Pro												689
					caa Gln				_	_							737
	Val	Ile 220	Cys	Tyr	tat Tyr	Met	Asn 225	Trp	Thr	Tyr	Val	Phe 230	Tyr	Phe	Phe	Gly	785
					Ile									-	_	_	833
	Thr		Glu	Thr	His 255	Lys	Thr		Thr	Pro 260	Tyr	Glu	Lys	Glu	Tyr 265		881
	Leu	Ser	Ser	Leu 270	aaa Lys	Asn	Gln	Leu	Ser 275	Ser	Gln	Lys	Ser	Val 280	Pro	Trp	929
	Ile	Pro	Met 285	Leu	aaa Lys	Ser	Leu	Pro 290	Leu	Trp	Ala	Ile	Val 295	Val	Ala	His	977
	Phe				tgg Trp					_				_			1025

										gag Glu					1073
										atg Met		_	_		1121
										ttt Phe			_		1169
										gga Gly					1217
							-	-		tcc Ser 390	_	_	_	•	1265
						_				tgc Cys					1313
									Tyr	gct Ala					1361
					•					atg Met					1409
_	_	_								gga Gly	_				1457
	-		_	_	-			_		ggt Gly 470	_				1505
					_					gcc Ala					1553
			aac Asn 495	_	aggaa	acc a	aataa	aataa	at co	ctgto	eteta	a tta	atgt	atc	1608

tttgtttatc atgtaaccta aaagtgcctt tgatatttta atgtgtaagc aatctatata 1668 caagataaaa ttgtactaga aaaattgtgt tagatttgta aggcttgtaa tcatgaaatg 1728 tcactagttg ccatataagc aaaattagct atttttaatt attattaacc cgtttgctgg 1788 aacttacaat tcagggtcac atatctggct gcaagtcagg caacccacaa taggggagtt 1848 ctatttattt ataagaccat acctaaagag atgagctgaa atagaccctt ctataccttt 1908 gcttaattaa ggtggataat aattctcagg tcttgttaaa catctgtttt tgtacacctt 1968 cctcaaaaaa ttatttgtca tcagcaatcc ctgacatgta ggtctcaaac tttagcctct 2028 ccacggaget ggcagecaet gtateattea geetggcaae tteaetgagg gaageatgee 2088 caggcagctg ccacatgtcc cctctctggc ttcagggaca gtgcccagca cttaggcagc 2148 atccaagacc agggtcagcg ccaaggcttt ggacggtatt cttcccctgg ggctgttaat 2208 gtgtggatga agccctgagc caacagggac agcgcgatcc acagtcatgg tttccatgca 2268 ecetetecet tecettecea geacactgga gtattgeetg geatgtaace tgeaaaagaa 2328 agtgtgatgc ctaattagcc acatataaca tcatccttga tgatcctacc ttcacatgga 2388 tcagagtata aatcttcaag tcctgtgttc taggagctac accagaataa ttaaaatata 2448 aaaagaaaca aaacattttt totgtotgac acctaagtgt otggttgcag ttcaaggtta 2508 aagtgacttc tacttcacat aacctgcaac cggtggtgta atcatcttta gtgttggttt 2568 cttaaatctt atttttccag tttttcctgg accatcttcc agtggttttg agcatgcttt 2628 gagggcattt atgtgattta gaacttgatt aatgtttcac tgtgtatgtt caacactacc 2688 tgtaatattt taactaaagc tatttaatgt aatatgatgt gtatacattc tgtaaattaa 2748 tttttaaatc tgtaaatagc tttaagttgc tatggtgata tttcttttac aaatcaaaat 2808 aaatcttttt ggaatgataa aaaaaaaaa aaaaaa 2844

<sup>&</sup>lt;210> 4

<sup>&</sup>lt;211> 495

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Ovis sp.

<	4	O	U	`	Δ

- Met Lys Ser Pro Val Ser Asp Leu Ala Pro Ser Asp Gly Glu Glu Gly

  1 5 10 15
- Ser Asp Arg Thr Pro Leu Leu Gln Arg Ala Pro Arg Ala Glu Pro Ala 20 25 30
- Pro Val Cys Cys Ser Ala Arg Tyr Asn Leu Ala Phe Leu Ser Phe Phe 35 40 45
- Gly Phe Phe Val Leu Tyr Ser Leu Arg Val Asn Leu Ser Val Ala Leu 50 55 60
- Val Asp Met Val Asp Ser Asn Thr Thr Ala Lys Asp Asn Arg Thr Ser 65 70 75 80
- Tyr Glu Cys Ala Glu His Ser Ala Pro Ile Lys Val Leu His Asn Gln 85 90 95
- Thr Gly Lys Lys Tyr Arg Trp Asp Ala Glu Thr Gln Gly Trp Ile Leu 100 105 110
- Gly Ser Phe Phe Tyr Gly Tyr Ile Ile Thr Gln Ile Pro Gly Gly Tyr
  115 120 125
- Val Ala Ser Arg Ser Gly Gly Lys Leu Leu Gly Phe Gly Ile Phe 130 135 140
- Ala Thr Ala Ile Phe Thr Leu Phe Thr Pro Leu Ala Ala Asp Phe Gly
  145 150 155 160
- Val Gly Ala Leu Val Ala Leu Arg Ala Leu Glu Gly Leu Gly Glu Gly
  165 170 175
- Val Thr Tyr Pro Ala Met His Ala Met Trp Ser Ser Trp Ala Pro Pro 180 185 190
- Leu Glu Arg Ser Lys Leu Leu Ser Ile Ser Tyr Ala Gly Ala Gln Leu 195 200 205
- Gly Thr Val Val Ser Leu Pro Leu Ser Gly Val Ile Cys Tyr Tyr Met 210 215 220
- Asn Trp Thr Tyr Val Phe Tyr Phe Phe Gly Ile Val Gly Ile Ile Trp 225 230 235 240
- Phe Ile Leu Trp Ile Cys Leu Val Ser Asp Thr Pro Glu Thr His Lys
  245 250 255

- Thr Ile Thr Pro Tyr Glu Lys Glu Tyr Ile Leu Ser Ser Leu Lys Asn 260 265 270
- Gln Leu Ser Ser Gln Lys Ser Val Pro Trp Ile Pro Met Leu Lys Ser 275 280 285
- Leu Pro Leu Trp Ala Ile Val Val Ala His Phe Ser Tyr Asn Trp Thr 290 295 300
- Phe Tyr Thr Leu Leu Thr Leu Leu Pro Thr Tyr Met Lys Glu Val Leu 305 310 315 320
- Arg Phe Asn Ile Gln Glu Asn Gly Phe Leu Ser Ala Val Pro Tyr Leu 325 330 335
- Gly Cys Trp Leu Cys Met Ile Leu Ser Gly Gln Ala Ala Asp Asn Leu 340 345 350
- Arg Ala Arg Trp Asn Phe Ser Thr Leu Trp Val Arg Arg Val Phe Ser 355 360 365
- Leu Ile Gly Met Ile Gly Pro Ala Ile Phe Leu Val Ala Ala Gly Phe 370 375 380
- Ile Gly Cys Asp Tyr Ser Leu Ala Val Ala Phe Leu Thr Ile Ser Thr 385 390 395 400
- Thr Leu Gly Gly Phe Cys Ser Ser Gly Phe Ser Ile Asn His Leu Asp 405 410 415
- Ile Ala Pro Ser Tyr Ala Gly Ile Leu Leu Gly Ile Thr Asn Thr Phe
  420 425 430
- Ala Thr Ile Pro Gly Met Ile Gly Pro Ile Ile Ala Arg Ser Leu Thr 435 440 445
- Pro Glu Asn Thr Ile Gly Glu Trp Gln Thr Val Phe Cys Ile Ala Ala 450 455 460
- Ala Ile Asn Val Phe Gly Ala Ile Phe Phe Thr Leu Phe Ala Lys Gly
  465 470 475 480
- Glu Val Gln Asn Trp Ala Ile Ser Asp His Gln Gly His Arg Asn
  485
  490
  495

```
<211> 31
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: PCR primer
<400> 5
cgggatcccg ccngcnatgc ayrshrtstg g
                                                                   31
<210> 6
<211> 29
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: PCR primer
<400> 6
ggaattccdg gdgcratktc narrtrrtt
                                                                   29
<210> 7
<211> 2930
<212> DNA
<213> Homo sapiens
<220>
<221> CDS
<222> (263)..(1870)
gttcggtcga agccctcccc ttaattatgt gcaattcaag tccccactgc ccgcccgcaa 60
gcccccactc atcctcgctg cgggcagggt ggcccctgca ctttacaagg gggtgcagga 120
gcgggagacg gtcgtccgaa caccggctcc ccggcatgcg tagaccggcg ggcggagcgg 180
geteactttg egecaateet aegagaacte ceagaactee getteeetag teeaaceeaa 240
gccagagttg cccacaccta ag atg gcg gcg gcg atg aca ccg ccc cgc 292
                         Met Ala Ala Gly Ala Met Thr Pro Pro Arg
                                                             10
                           1
ceg gtc cag cca gct cgg ccc ggg ggc ttc ggg ctg tcg ggc cgg cgc
                                                                  340
Pro Val Gln Pro Ala Arg Pro Gly Gly Phe Gly Leu Ser Gly Arg Arg
```

20

15

							agt Ser						_	-	_	388
							gcc Ala 50						_	_	-	436
							ggc Gly									484
							aac Asn					_				532
							cgt Arg					-				580
Asp	Met	Val	Asp 110	Ser	Asn	Thr	act Thr	Leu 115	Glu	Asp	Asn	Arg	Thr 120	Ser	Lys	628
							pro								-	676
							gca Ala									724
							atc Ile									772
					_		atg Met	-								820
							act Thr			-					_	868
							gca Ala 210			_		-				916

								gct Ala				964
								gca <sub>.</sub> Ala	_		999 Gly ( 250	1012
							-	tac Tyr		_		1060
-								ata Ile				1108
								aaa Lys 295		_	<b>-</b> .	1156
								tta Leu	_		_	1204
								tta Leu			_	1252
								aac Asn				1300
			-			_	_	gag Glu				1348
								cct Pro 375				1396
			-			_	-	gac Asp				1444
	-			_	-	_	-	att Ile		_		1492

			_				_	_		•	•	•	_	J.,	ttc Phe 425		1540
_	-	_	_			_	_	_	_						aca Thr		1588
					_					_				_	gat Asp		1636
			-												ttt Phe	_	1684
Т															acc Thr		1732
_				_		_								_	gct Ala 505	_	1780
			_			-							_		ggt Gly	-	1828
_					_			gat Asp 530					-				1870
t	gaa	agga	acc a	aataa	aata	at c	ctgc	ctcta	a tta	aatgt	att	ttta	attta	atc a	atgta	acctc	1930
a	aag	gtgc	ctt	ctgta	attg	tg ta	aagca	attct	ato	gteti	ttt	ttaa	attgi	ac	ttgta	attaga	1990
t	tti	ttaa	ggc	ctata	aatc	at ga	aaata	atcad	c tag	gttg	ccag	aata	aataa	aaa	tgaad	etgtgt	2050
t	taa	atta	tga (	ataa	tatg	ta a	gctag	ggact	tc1	cacti	tag	gtto	caca	cac	ctgc	ctgcta	2110
9	jtc	gggc	aac .	atga	agta	gg a	cagt	tctgt	t tga	attti	tta	ggg	ccata	act .	aaagg	ggaatg	2170
а	gci	tgaa	aca (	gacc	tcct	ga ta	accti	ttgct	t taa	atta	aact	agat	tgata	aat	tctca	aggtac	2230
t	gai	taaa	cac	ctgt	tgtt	gt t	cact	ttcct	cat	taaaa	aatt	gtca	agcto	ctc	tctga	acactt	2290
a	ıga	cctc	aaa	cttt	agca	tc t	ctgt	ggag	tg:	ccat	ccac	tgta	ataa	tt.	cgcct	ggcaa	2350

<210> 8

<211> 536

<212> PRT

<213> Homo sapiens

<400> 8

Met Ala Ala Gly Ala Met Thr Pro Pro Arg Pro Val Gln Pro Ala Arg

1 5 10 15

Pro Gly Gly Phe Gly Leu Ser Gly Arg Arg Ser Leu Leu Cys Gln Val 20 25 30

Ala Ser Thr Pro Ala His Val Gly Val Met Arg Ser Pro Val Arg Asp 35 40 45

Leu Ala Arg Asn Asp Gly Glu Glu Ser Thr Asp Arg Thr Pro Leu Leu 50 55 60

Pro Gly Ala Pro Arg Ala Glu Ala Ala Pro Val Cys Cys Ser Ala Arg
65 70 75 80

Tyr Asn Leu Ala Ile Leu Ala Phe Phe Gly Phe Phe Ile Val Tyr Ala 85 90 95

Leu Arg Val Asn Leu Ser Val Ala Leu Val Asp Met Val Asp Ser Asn 100 105 110

Thr	Thr	115		Asp	Asn	Arg	120	Ser	Lys	Ala	Cys	Pro 125	Glu	His	Ser
Ala	Pro 130	Ile	Lys	Val	His	His 135	Asn ·	Gln	Thr	Gly	Lys 140	Lys	Tyr	Gln	Trp
Asp 145	Ala	Glu	Thr		Gly 150	Trp	Ile	Leu	Gly	Ser 155	Phe	Phe	Tyr	Gly	Туr 160
Ile	Ile	Thr	Gln	Ile 165	Pro	Gly	Gly	Tyr	Val 170	Ala	Ser	Lys	Ile	Gly 175	Gly
Lys	Met	Leu	Leu 180	Gly	Phe	Gly	Ile	Leu 185	Gly	Thr	Ala	Val	Leu 190	Thr	Leu
Phe	Thr	Pro 195	Ile	Ala	Ala	Asp	Leu 200	Gly	Val	Gly	Pro	Leu 205	Ile	Val	Leu
Arg	Ala 210	Leu	Glu	Gly	Leu	Gly 215		Gly	Val	Thr	Phe 220	Pro	Ala	Met	His
Ala 225	Met	Trp	Ser	Ser	Trp 230	Ala	Pro	Pro	Leu	Glu 235	Arg	Ser	Lys	Leu	Leu 240
Ser	Ile	Ser	Tyr	Ala 245	Gly	Ala	Gln	Leu	Gly 250	Thr	Val	Ile	Ser	Leu 255	Pro
Leu	Ser	Gly	Ile 260	Ile	Cys	Tyr	Tyr	Met 265	Asn	Trp	Thr	Tyr	Val 270	Phe	Tyr
Phe	Phe	Gly 275	Thr	Ile	Gly	Ile	Phe 280	Trp	Phe	Leu	Leu	Trp 285.	Ile	Trp	Leu
Val	Ser 290	Asp	Thr	Pro	Gln	Lys 295	His	Lys	Arg	Ile	Ser 300	His	Tyr	Glu	Lys
Glu 305	Tyr	Ile	Leu	Ser	Ser 310	Leu	Arg	Asn	Gl'n	Leu 315	Ser	Ser	Gln	Lys	Ser 320
Val	Pro	Trp	Val	Pro 325	İle	Leu	Lys	Ser	Leu 330	Pro	Leu	Trp	Ala	Ile 335	Val
Val	Ala	His	Phe 340	Ser	Tyr	Asn	Trp	Thr 345	Phe	Tyr	Thr	Leu	Leu 350	Thr	Leu
Leu	Pro	Thr 355	Tyr	Met	Lys	Glu	Ile 360	Leu	Arg	Phe	Asn	Val 365	Gln	Glu	Asn

Gly Phe Leu Ser Ser Leu Pro Tyr Leu Gly Ser Trp Leu Cys Met Ile 370 375 380

Leu Ser Gly Gln Ala Ala Asp Asn Leu Arg Ala Lys Trp Asn Phe Ser 385 390 395 400

Thr Leu Cys Val Arg Arg Ile Phe Ser Leu Ile Gly Met Ile Gly Pro
405 410 415

Ala Val Phe Leu Val Ala Ala Gly Phe Ile Gly Cys Asp Tyr Ser Leu
420 425 430

Ala Val Ala Phe Leu Thr Ile Ser Thr Thr Leu Gly Gly Phe Cys Ser 435 440 445

Ser Gly Phe Ser Ile Asn His Leu Asp Ile Ala Pro Ser Tyr Ala Gly
450 455 460

Ile Leu Leu Gly Ile Thr Asn Thr Phe Ala Thr Ile Pro Gly Met Val 465 470 475 480

Gly Pro Val Ile Ala Lys Ser Leu Thr Pro Asp Asn Thr Val Gly Glu 485 490 495

Trp Gln Thr Val Phe Tyr Ile Ala Ala Ile Asn Val Phe Gly Ala 500 505 510

Ile Phe Phe Thr Leu Phe Ala Lys Gly Glu Val Gln Asn Trp Ala Leu
515 520 525

Asn Asp His His Gly His Arg His 530 535

<210> 9

<211> 1485

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: human/sheep consensus sequence

<220>

<221> CDS

<222> (1)..(1485)

<400	)> 9	•														
atg	arg	tcy	ccg	gtt	ysr	gac	ytr	gcc	csg	arc	gay	ggc	gag	gag	rgc	48
Met	Xaa	Xaa	Pro	Val	Xaa	Asp	Xaa	Ala	Xaa	Xaa	Xaa	Gly	Glu	Glu	Xaa	
1	•	•		5			•		10					15		
		•														
						ctr						_			_	96
Xaa	Asp	Arg		Xaa	Xaa	Xaa	Xaa		Ala	Xaa	Arg	Xaa		Xaa	Ala	
			20					25					30			
cca	atr	tac	tac	tct	act	cgt	tac	320	vta	acs.	1.7 <b>+</b> +	tta	kaa		+++	144
		-	_		_	Arg			-	-		_				144
	····	35	Cyb	001		<b></b> 9	40	ASII	nau	ALU	Add	45	Aua	FIIC	FIIC	
ggt	ttc	ttc	rtt	sts	tat	kca	tta	cgk	gtg	aat	ctg	agy	gtt	gcr	yta	192
_						Xaa										
	50			•		55					60					
gtg	gay	atg	gtr	gat	tca	aay	aca	act	${\tt kym}$	raa	gat	aat	aga	ack	tcc	240
Val	Xaa	Met	Xaa	Asp	Ser	Xaa	Thr	Thr	Xaa	Xaa	Asp	Asn	Arg	Xaa	Ser	
65					70					75					80	
						tct	-				_		_	_		288
Лаа	лаа	cys	лаа	85	HIS	Ser	Ala	Pro	90	гуѕ	vai	хаа	хаа		GIn	
•				03					90					95		
acq	qqt	aar	aaq	tac	crr	tgg	gat	qca	qaa	act	caa	qqa	taa	att	ctc	336
						Trp										
	_		100			-	-	105				-	110			
								•								
ggw	tcy	ttt	tty	tat	ggc	tac	atc	atc	aca	car	att	cct	gga	gga	tat	384
Xaa	Xaa	Phe	Xaa	Tyr	Gly	Tyr	Ile	Ile	Thr	Xaa	Ile	Pro	Gly	Gly	Tyr	
		115					120					125				
	• -	_				ggg		_				_			_	432
vaı		ser	хаа	хаа	GIY	Gly	хаа	хаа	хаа	Leu	140	хаа	GIY	iie	хаа	
	130					135					140					
asv	acw	act	rtc	vtc	acc	·ctg	ttc	act	CCC	mtv	act	gca	gat	t.tm	gga	480
		_		_		Leu				_	-	-	-			
145					150					155					160	
gty	gga	scm	cty	rtt	gya	ctc	agr	gca	cta	gaa	ggr	cta	gga	gag	ggt	528
Xaa	Gly	Xaa	Xaa	Xaa	Xaa	Leu	Xaa	Ala	Leu	Glu	Xaa	Leu	Gly	Glu	Gly	
				165				•	170					175		
				_	_	cat	-	_					_			576
Xaa	Thr	Xaa		Ala	Met	His	Ala		Trp	Ser	Xaa	Trp		Pro	Pro	
			180					185					190			

													-	car Xaa		624
												_		tat Tyr	_	672
							•							wty Xaa		720
_				_										cac His 255	_	768
	_	_	_			•	_	-						ara Xaa		816
_					-			_			_		-	aaa Lys		864
				_	_	_	-	_	-					tgg Trp		912
				-			_			_	_	_	-	rtc Xaa		960
														tat Tyr 335		1008
				_	_		_				_	_	_	aat Asn		1056
														ttt. Phe		1104
		Xaa	-				_			_	_		_	ggm Xaa	-	1152

		•	,														•
			,	•													•
														•			•
atw ggc	tgt	gat	tat	tcy	ttg	gcy	gtt	gcw	ttc	cta	асу	ata	tca	aca	1200	•	
Xaa Gly	Cys	Asp	Tyr	Xaa	Leu	Xaa	Val	Xaa	Phe	Leu	Xaa	Ile	Ser	Thr	,		
385				390					395					400			
acm ctg													_		1248		
Xaa Leu	Gry	GIY	405	Cys	ser	ser	GIY	410	ser	11e	ASI	HIS	Leu 415	Хаа			
								110					413	•			
att gct	cct	tcg	tat	gct	ggt	aty	ctc	ctg	ggc	atc	aca	aat	acm	ttt	1296		
Ile Ala																•	
		420					425					430					
777	~ <u>-</u> -			<b>~-</b> -								•					
gcc act Ala Thr												_			1344		
*****	435		<u></u> 1		ua	440		nua	-T-C	nua	445	PET	naa	TILL			
														•			
cct gak	aac	act	rtt	gga	gaa	tgg	caa	acy	gtk	ttc	try	aty	gct	gct	1392		
Pro Xaa	Asn	Thr	Xaa	Gly		Trp	Gln	Xaa	Xaa		Xaa	Xaa	Ala	Ala	•		
450					455					460							
gct aty	aat	atw	+++	aat	acc	2++	ttc	ttv	202	cta	tta.	acc	222	aat	1440		
Ala Xaa															1440		
465				470					475				-7 -	480			
gaa gtr															1485		
Glu Xaa	Gln	Asn		Xaa	Xaa	Xaa	Asp		Xaa	Gly	His	Arg					
			485					490	•				495				
• •												*					
<210> 10	)																
<211> 49	5		•														
<212> PF																	
<213> Ar	citi	(Cla	L Sec	quenc	e				•								
<400> 10	)																
Met Xaa		Pro	Val	Xaa	Asp	Xaa	Ala	Xaa	Xaa	Xaa	Gly	Glu	Glu	Xaa			
1			5					10					15				•
	_									_							
Xaa Asp	Arg		Xaa	Xaa	Xaa	Xaa		Ala	Xaa	Arg	Xaa		Xaa	Ala			
	•	20					25					30					
Pro Xaa	Cys	Cys	Ser	Ala	Arq	Tyr	Asn	Xaa	Ala	Хаа	Leu	Xaa	Phe	Phe			
	35	-			_	40		•			45						
Gly Phe	Phe	Xaa	Xaa	Tyr		Leu	Xaa	Val	Asn		Xaa	Val	Xaa	Xaa			
50					55					60							
						22	•										

65				<b>-</b>	70		••••			75	p	ASII	arg	nuu	80
Xaa	Xaa	Cys	Xaa	Glu 85	His	Ser	Ala	Pro	Ile 90	Lys	Val	Xaa	Xaa	Xaa 95	Gln
Thr	Gly	Xaa	Lys 100	Tyr	Xaa	Trp	Asp	Ala 105	Glu	Thr	Gln	Gly	Trp 110	Ile	Leu
Xaa	Xaa	Phe 115	Xaa	Tyr	Gly	Tyr	Ile 120	Ile	Thr	Xaa	Ile	Pro 125	Gly	Gly	Tyr
Val	Ala 130	Ser	Xaa	Xaa	Gly	Gly 135	Xaa	Xaa	Xaa	Leu	Gly 140	Xaa	Gly	Ile	Xaa
Xaa 145	Xaa	Ala	Xaa	Xaa	Thr 150	Leu	Phe	Thr	Pro	Xaa 155	Ala	Ala	Asp	Xaa	Gly 160
				165					170				-	175	Gly
			180			٠		185					190		Pro
		195					200					205			Leu
	210					215	Leu				220				
225					230		Xaa			235		_			240
				245			Val		250					255	
			260				Xaa	265					270		
		275					Val 280		_			285			
	290		_			295	Val				300				
205	Tyr	rnr	хаа	ьeu	310	ьeu	Leu	Pro	Tnr	315	мес	гÀг	лаа	лаа	ьеи 320

Arg Phe Asn Xaa Gln Glu Asn Gly Phe Leu Ser Xaa Xaa Pro Tyr Leu 325 330 335

Xaa Xaa Trp Leu Cys Met Ile Leu Xaa Gly Gln Ala Ala Asp Asn Leu 340 345 350

Arg Ala Xaa Trp Asn Phe Ser Thr Xaa Xaa Val Xaa Arg Xaa Phe Ser 355 360 365

Leu Ile Xaa Met Ile Gly Pro Xaa Xaa Phe Leu Xaa Xaa Xaa Xaa Xaa 370 380

Xaa Gly Cys Asp Tyr Xaa Leu Xaa Val Xaa Phe Leu Xaa Ile Ser Thr 385 390 395 400

Xaa Leu Gly Gly Phe Cys Ser Ser Gly Phe Ser Ile Asn His Leu Xaa 405 410 415

Ile Ala Pro Ser Tyr Ala Gly Xaa Leu Leu Gly Ile Thr Asn Xaa Phe 420 425 430

Ala Thr Ile Xaa Gly Met Xaa Gly Pro Xaa Ile Xaa Xaa Ser Xaa Thr 435 440 445

Pro Xaa Asn Thr Xaa Gly Glu Trp Gln Xaa Xaa Phe Xaa Xaa Ala Ala 450 455 460

Ala Xaa Asn Xaa Phe Gly Ala Ile Phe Xaa Thr Leu Phe Ala Lys Gly 465 470 475 480

Glu Xaa Gln Asn Trp Xaa Xaa Xaa Asp His Xaa Gly His Arg Xaa 485 490 495

<210> 11

<211> 1485

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: human/sheep consencus sequence

<220>

<221> CDS

<222> (1)..(1485)

<400> 11

acg	any	CCII	ccg	guu	mm	gac	псп	gcc	cng	anc	gan	ggc	gag	gag	ngc	48
Met	Xaa	Xaa	Pro	Val	Xaa	Asp	Xaa	Ala	Xaa	Xaa	Xaa	Gly	Glu	Glu	Xaa	
1				5					10					15		
		•														
nca	aac	cac	acn	ccn	ctn	ata	ana.	naa	~~~	aan		aan	~			
														ncc	-	96
лаа	Asp	Arg		лаа	хаа	хаа	хаа		Ala	хаа	Arg	хаа	Glu	Xaa	Ala	
			20					25					30			
cca	gtn	tgc	tgc	tct	gct	cgt	tac	aac	nta	gca	ntt	ttg	ncc	ttt	ttt	144
Pro	Xaa	Cys	Cys	Ser	Ala	Arg	Tyr	Asn	Xaa	Ala	Xaa	Leu	Xaa	Phe	Phe	
		35				_	40					45				•
aat	ttc	ttc	ntt	ntn	tat	nga	++3	can	ata	22+	ata	202	~++	gcn		100
							-									192
Gry		Pne	лаа	хаа	Tyr		Leu	хаа	vaı	Asn	Leu	хаа	Val	Xaa	Xaa	
	50					55					6,0					
gtg	gan	atg	gtn	gat	tca	aan	aca	act	nnn	naa	gat	aat	aga	acn	tcc	240
Val	Xaa	Met	Xaa	Asp	Ser	Xaa	Thr	Thr	Xaa	Xaa	Asp	Asn	Arg	Xaa	Ser	
65					70			•		75	_		_		80	•
											•					•
nan	ana	tat	nca	gag	cat	tct	act	ccc	ata	222	att	cnt	can	aan	Caa	288
											_					200
лаа	лаа	Cys	лаа		птъ	ser	AIA	PIO		гуѕ	vaı	лаа	хаа	Xaa	GIN	
				85					90					95		
acg	ggt	aan	aag	tac	cnn	tgg	gat	gca	gaa	act	caa	gga	tgg	att	ctc	336
Thr	Gly	Xaa	Lys	Tyr	Xaa	Trp	Asp	Ala	Glu	Thr	Gln	Gly	Trp	Ile	Leu	
			100					105					110			
ggn	tcn	ttt	ttn	tat	qqc	tac	atc	atc	aca	can	att	cct	gga	gga	tat	384
														Gly		
		115		-1-	1	- 1 -	120					125	<b>01</b>		-1-	
		117					120					123				
														atc		432
Val		Ser	Xaa	Xaa	Gly	GLY	Xaa	Xaa	Xaa	Leu	Gly	Xaa	Gly	Ile	Xaa	
	130					135					140					
gnn	acn	gct	ntc	ntc	acc	ctg	ttc	act	ccc	ntn	gct	gca	gat	ttn	gga	480
Xaa	Xaa	Ala	Xaa	Xaa	Thr	Leu	Phe	Thr	Pro	Xaa	Ala	Ala	Asp	Xaa	Gly	
145					150					155			_		160	
								•								
atr	aas	ncn	ctn	ntt	ana	ctc	agn	ac.	cta	ass	aan	cta	aa a	gag	aat	528
					-					-						240
nad	GIA	nad	nad		naa	ьеu	Add	wrg		GIU	naa	ьeu	GTÀ	Glu	GTÅ	
				165					170					175		
gtn	aca	tnt	cca	gcc	atg	cat	gcc	atg	tgg	tct	tcn	tgg	gct	CCC	cct	576
Xaa	Thr	Xaa	Pro	Ala	Met	His	Ala	Met	Trp	Ser	Xaa	Trp	Ala	Pro	Pro	
			180			•		185					190			

		-				_	•				_	can Xaa		624
	•	_								_		tat Tyr	_	672
aat Asn 225												ntn Xaa		720
				_		_	_					cac His 255	•	768
					-	_						ana Xaa		816
			_	_		_	_					aaa Lys		864
			 		-	_	_					tgg Trp		912
			_			_			_	_	_	ntc Xaa		960
												tat Tyr 335		1008
			_	_		_		_				aat Asn		1056
												ttt Phe		1104
												ggn Xaa		1152

		_	_			_	_	_	gcn Xaa						1200
	_				_				ttt Phe 410	_			_	_	1248
	_		_		_				ctg Leu						1296
_				-	_				ntc Xaa		•	_			1344
	_					-			acn Xaa	Τ.			_	_	1392
_			_			_			ttn Xaa			_			1440
-	_				Xaa				cac His 490						1485

<210> 12

<211> 495

<212> PRT

<213> Artificial Sequence

<400> 12

Met Xaa Xaa Pro Val Xaa Asp Xaa Ala Xaa Xaa Xaa Gly Glu Glu Xaa 1 5 10 15

Xaa Asp Arg Xaa Xaa Xaa Xaa Xaa Ala Xaa Arg Xaa Glu Xaa Ala 20 25 30

Pro Xaa Cys Cys Ser Ala Arg Tyr Asn Xaa Ala Xaa Leu Xaa Phe Phe 35 40 45

Gly Phe Phe Xaa Xaa Tyr Xaa Leu Xaa Val Asn Leu Xaa Val Xaa Xaa 50 55 60

Val Xaa Met Xaa Asp Ser Xaa Thr Thr Xaa Xaa Asp Asn Arg Xaa Ser

Xaa Xaa Cys	Xaa Glu	His	Ser	Ala	Pro	Ile	Lys	Val	Xaa	Xaa	Xaa	Gln
	85					90					95	

- Thr Gly Xaa Lys Tyr Xaa Trp Asp Ala Glu Thr Gln Gly Trp Ile Leu 100 105 110
- Xaa Xaa Phe Xaa Tyr Gly Tyr Ile Ile Thr Xaa Ile Pro Gly Gly Tyr
  115 120 125
- Val Ala Ser Xaa Xaa Gly Gly Xaa Xaa Xaa Leu Gly Xaa Gly Ile Xaa 130 135 140
- Xaa Gly Xaa Xaa Xaa Leu Xaa Ala Leu Glu Xaa Leu Gly Glu Gly
  165 170 175
- Xaa Thr Xaa Pro Ala Met His Ala Met Trp Ser Xaa Trp Ala Pro Pro 180 185 190
- Leu Glu Arg Ser Xaa Leu Xaa Xaa Ile Xaa Tyr Ala Gly Ala Xaa Leu 195 200 205
- Gly Thr Val Xaa Ser Leu Pro Leu Ser Gly Xaa Ile Cys Tyr Tyr Met 210 215 220
- Asn Trp Thr Tyr Val Phe Xaa Xaa Phe Xaa Xaa Xaa Gly Xaa Xaa Trp 225 230 235 240
- Phe Xaa Xaa Trp Ile Xaa Leu Val Ser Xaa Thr Pro Xaa Xaa His Lys 245 250 255
- Xaa Xaa Xaa Xaa Tyr Glu Lys Xaa Xaa Ile Leu Ser Ser Leu Xaa Asn 260 265 270
- Gln Xaa Ser Ser Gln Lys Ser Val Pro Trp Xaa Xaa Xaa Xaa Lys Xaa 275 280 285
- Leu Pro Leu Trp Ala Xaa Xaa Val Ala Xaa Phe Ser Tyr Asn Trp Thr 290 295 300
- Phe Tyr Thr Xaa Leu Xaa Leu Leu Pro Thr Xaa Met Lys Xaa Xaa Leu 305 310 315 320
- Arg Phe Asn Xaa Gln Glu Asn Gly Phe Leu Ser Xaa Xaa Pro Tyr Leu

Xaa	Xaa	Trp	Leu	Cys	Met	Ile	Leu	Xaa	Gly	Gln	Ala	Ala	Asp	Asn	Leu
			340					345					350		

- Arg Ala Xaa Trp Asn Phe Ser Thr Xaa Xaa Val Xaa Arg Xaa Phe Ser 355 360 365
- Leu Ile Xaa Met Ile Gly Pro Xaa Xaa Phe Leu Xaa Xaa Xaa Xaa Xaa 370 380
- Xaa Gly Cys Asp Tyr Xaa Leu Xaa Val Xaa Phe Leu Xaa Ile Ser Thr 385 390 395 400
- Xaa Leu Gly Gly Phe Cys Ser Ser Gly Phe Ser Ile Asn His Leu Xaa 405 410 415
- Ile Ala Pro Ser Tyr Ala Gly Xaa Leu Leu Gly Ile Thr Asn Xaa Phe 420 425 430
- Ala Thr Ile Xaa Gly Met Xaa Gly Pro Xaa Ile Xaa Xaa Ser Xaa Thr 435 440 445
- Pro Xaa Asn Thr Xaa Gly Glu Trp Gln Xaa Xaa Phe Xaa Xaa Ala Ala 450 455 460
- Ala Xaa Asn Xaa Phe Gly Ala Ile Phe Xaa Thr Leu Phe Ala Lys Gly 465 470 475 480
- Glu Xaa Gln Asn Trp Xaa Xaa Xaa Asp His Xaa Gly His Arg Xaa 485 490 495